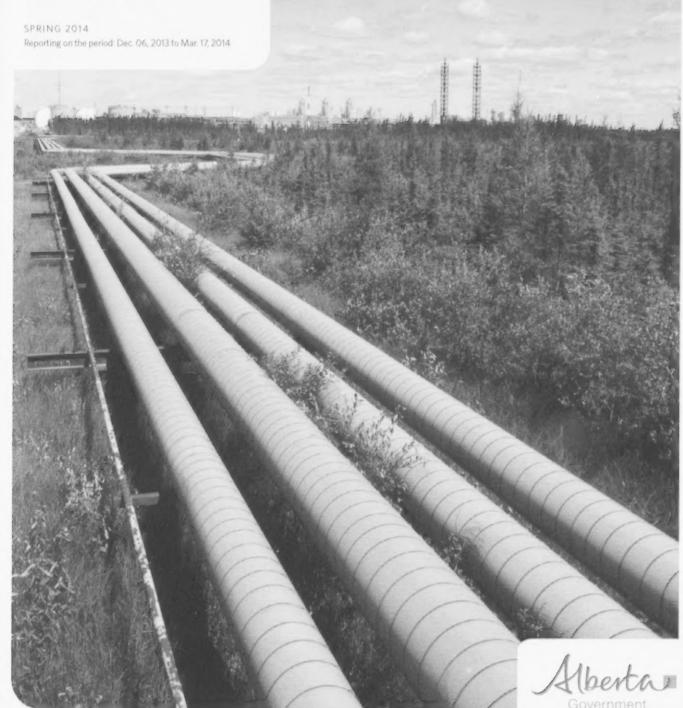
ALBERTA OIL SANDS INDUSTRY

QUARTERLY UPDATE



All about the oil sands

Background of an important global resource

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Canada has the third-largest oil reserves in the world, after Saudi Arabia and Venezuela. Of Canada's 173 billion barrels of oil reserves. 170 billion barrels are located in Alberta, and about 168 billion barrels are recoverable from bitumen. This is a resource that has been developed for decades but is now gaining increased global attention as conventional supplies-so-called "easy" oil-continue to be depleted. The figure of 168 billion barrels of bitumen represents what is considered economically recoverable with today's technology, but with new technologies, this reserve estimate could be significantly increased. In fact, total oil sands reserves in place are estimated at 1.8 trillion barrels.

There are three major bitumen (or oil sands) deposits in Alberta. The largest is the Athabasca deposit, which is located in the province's northeast in the Regional Municipality of Wood Buffalo. The main population centre of the Athabasca deposit is Fort McMurray. The second-largest oil sands deposit is referred to as Cold Lake, just south of Athabasca, with the main population centre the City of Cold Lake. The smallest oil sands deposit is known as Peace River, which is located in northwest-central Alberta. A fourth deposit called Wabasca links to the Athabasca and is generally lumped in with that area.

The existence of bitumen in Alberta has been known for a long time. The first mention of it in Canadian history was in 1719, when a Cree named Wapasu brought a sample of the "gum" to a Hudson's Bay trading post. First Nations in what is now the Wood Buffalo area had traditionally used the bitumen, which seeps from outcrops along the Athabasca River, to waterproof their canoes.

For the first time in 2012, in situ oil sands production exceeded mined oil sands production in Alberta. In 2012, 52 per cent of the province's oil sands volumes were produced using in situ

methods. Alberta will continue to rely to a greater extent on in situ production in the future, as 80 per cent of the province's proven bitumen reserves are too deep underground to recover using mining methods.

There are essentially two commercial methods of in situ (Latin for "in place," essentially meaning wells are used rather than trucks and shovels). In cyclic steam stimulation (CSS), high-pressure steam is injected into directional wells drilled from pads for a period of time, then the steam is left to soak in the reservoir for a period, melting the bitumen, and then the same wells are switched into production mode, bringing the bitumen to the surface.

In steam assisted gravity drainage (SAGD), parallel horizontal well pairs are drilled from well pads at the surface. One is drilled near the top of the target reservoir, while the other is drilled near its bottom. Steam is injected into the top well, a steam chamber forms, and the melted bitumen flows into the lower well via gravity and is pumped to the surface using artificial lift.

Both SAGD and CSS are used in the Cold Lake and Peace River deposits, while SAGD is the in situ technology of choice in the Athabasca deposit. The selection is based on a number of factors, including geology. The technologies combined currently produce just over one million barrels per day.

Research is underway on a number of other production technologies designed to optimize production, including variations on solvent-assisted SAGD and CSS, recovery using electricity and in situ combustion.

Bitumen that has not been processed, or "upgraded," can be used directly as asphalt. It must be diluted to travel by pipeline. Adding value, some producers upgrade their product into synthetic crude oil, which is a refinery feedstock. That can be transformed into transportation fuels and other products.

Oil Sands Deposit Grosmont Carbonate Triangle National Park

Provincial Park Oil Sands Area

Surface Minable Area Capital of Alberta

FORT MCMURRAY

CONKLIN

LAC LA BICHE

COLDILAKE

BONNYVILLE

LLOYDMINSTER

MEDICINE HAT

Mapping the oil sands

100 KILOMETRES

PEACE RIVER

EDMONTON

RED DEER

LETHBRIDGE

CALGARY

Canada's oil sands resources are often referred to as "the oil that technology made." Without intensive production technology development, the industry would not exist as it does today. These technologies still continue to be advanced and optimized, improving recovery and reducing environmental impacts.

ALBERTA'S INDUSTRIAL HEARTLAND



GOVERNMENT UPDATE



KEYSTONE XL: ALBERTA CONTINUES TO PUT FACTS ON THE TABLE

Premier Alison Redford issued the following statement on Alberta's National Interest Determination submission for the proposed Keystone XI. Pipeline:

"We have been and remain confident in the merits of the Keystone XI. pipeline project. Our submission to the U.S. State Department continues our sustained efforts to share Alberta's strong regulatory framework and proven track record in developing some of the world's most progressive environmental initiatives.

"We know the approval of Keystone XI, will build upon the deep relationship between our countries and enable further progress toward a stronger, cleaner and more stable North American economy. This would certainly be in the interest of Albertans and, we respectfully believe, in the national interest of the United States.

"Alberta has always maintained that the facts need to be on the table in our face-to-face meetings with key decision makers in Washington and our submissions at each stage of the comprehensive review of this project. The U.S. State Department's final supplemental environmental impact statement recognized the work we're doing to protect the environment and explicitly mentioned the Alberta Lower Athabasca Regional Plan and the Specified Gas Emitter Regulation as examples.

"We are delivering on my government's promise to continue to advocate for important projects which support our long term prosperity. As part of the Building Alberta Plan, we continue to build new markets for our products and services so we can keep investing in what matters most."

NEB APPROVES LINE 9B PROJECT WITH CONDITIONS

The National Energy Board (NEB) released in March the reasons for decision on the Line 9B Reversal and Line 9 Capacity Expansion Project application submitted by Enbridge Pipelines Inc. The board has approved the project, with conditions, but denied Enbridge's request for exemption from leave to open requirements.

The NEB's decision enables Enbridge to react to market forces and provide benefits to Canadians, while at the same time implementing the project in a safe and environmentally sensitive manner.

In its application, Enbridge requested approval from the board to reverse the direction of flow on a 639-kilometre segment of pipeline located between North Westover, Ont., and Montreal, as well as approval to increase the overall capacity of the Line. 9 pipeline from Sarnia, Ont., to Montreal from 240,000 barrels per day to 300,000 barrels per day. Enbridge also requested a revision to its Line 9 rules and regulations fariff to allow for the transportation of heavy crude oil.

As a result of the NEB's decision, Enbridge will be permitted to operate all of Line 9 in an eastward direction in order to transport crude oil from western Canada and the U.S. Bakken region to refineries in Ontario and Quebec.

Previously in a decision issued July 27, 2012, the board approved the reversal of the western portion of Line 9, a 194-kilometre segment linking Sarnia to North Westover.

During the board's hearing process, it heard concerns from participants regarding pipeline integrity, spills and emergency response, and Enbridge's consultation efforts.

The NEB's approval is subject to conditions set out in the orders and described in the accompanying reasons for decision. For example, the board's conditions require Enbridge to undertake activities regarding pipeline integrity, emergency response and continued consultation. The NEB's reasons for decision and conditions also make reference to Enbridge's ongoing emergency response planning and consultation with municipalities, first responders and aboriginal groups.

GOVERNMENT OF ALBERTA COMMITTED TO RESPONSIBLE ENERGY DEVELOPMENT

Environment and Sustainable Resource Development Minister Robin Campbell issued in March the following statement:

"The Canadian economy is driven by the natural resource sector in Alberta. It provides jobs and opportunities for communities and families across the country.

"The Government of Alberta has a strong regulatory system in place that protects the environment along with the health and safety of Albertans. Our government takes this responsibility seriously and companies that do not meet these standards will be held accountable.

"Our ability to open new markets for our oil—or to maintain the markets we have today—depends on our credibility when it comes to responsible oil sands development.

"Alberta is a leader when it comes to having stringent environmental monitoring, regulation and protection legislation. We are proud of this and remain committed to





ensuring that we develop our resources in a responsible and sustainable way."

ALBERTA BALANCES BUDGET, FOCUSES ON ALBERTANS' PRIORITIES IN BUDGET 2014

Budget 2014 delivers a fully balanced budget focused on core areas that support families and communities—health, education and supports for the vulnerable --while continuing to build Alberta.

With \$1 billion in new operating funding for health, kindergarten to grade 12 (K-12), post-secondary education and human services to ease growth pressures, Budget 2014. implements the next phase of the Building Alberta Plan to invest in families and communities, live within our means, and open new markets for Alberta's resources for a stronger and more prosperous future.

While delivering an operational surplus of \$2.6 billion, Budget 2014 continues the government's commitment to fiscal responsibility by keeping operating expense growth below population plus inflation for a second year in a row. There are also no new taxes or tax increases.

Budget 2014 also implements a renewed purpose for Alberta's savings. Two new endowments within the Alberta Heritage. Savings Trust Fund will encourage social and agricultural innovation. A new Alberta Future Fund will provide flexible funding for future strategic opportunities, offering long-term benefits to Albertans and the Alberta economy, and the Alberta Heritage Scholarship Fund will be enhanced to support students exploring opportunities in the trades.

As the next phase of the Building Alberta Plan, Budget 2014. will invest \$6.6 billion this year and \$19.2 billion over the next three years in essential infrastructure needed to support Alberta's exceptionally strong population growth. Alberta is expected to remain Canada's fastest-growing province in 2014 and 2015, growing by about 100,000 people each year.

Budget 2014 commits funding for 155 K-12 school projects, seven post-secondary projects, 24 health facility projects, 258 kilometres of new or twinned highways and 2,500 kilometres of rehabilitated highways over the next three years.

ALBERTA GIVES BUSINESSES FASTER ACCESS TO ECONOMIC INFO

The Alberta government is giving the province's businesses a new online tool to help them compete and succeed in Alberta's growing economy.

The Economic Dashboard provides 26 economic metrics specific to the Alberta economy and will be updated on a near daily basis.

Metrics include indicators such as gross domestic product, natural resources prices and employment. The metrics also include historical time series charts that visually show performance over many years.

This user friendly online tool translates to mobile devices and allows for easy, on the go access to valuable business information. The dashboard's data is available on the Alberta.

The dashboard is an example of the Alberta government's commitment to provide investors, businesses and Albertans with the best economic data in the most accessible format.

The dashboard replaces the long-standing Monthly Economic Review that documented available economic statistics in monthly hard copy and electronic formats.

ALBERTA INCREASES ENERGY TIES WITH CHINA

The Redford government is strengthening ties to the growing Chinese market and supporting Alberta companies as they expand internationally in the areas of environmental protection and responsible resource development.

A trade mission led by Cal Dallas, minister of international and intergovernmental relations, supports eight Alberta exhibitors in Beijing at the China International Petroleum & Petrochemical Technology and Equipment Exhibition (CIPPE) - the world's largest petroleum exhibition - and 10 delegates showcasing technologies, products and services at Alberta-China Environmental Technology Workshops in Chengdu, China, and Harbin, China on March 11-21.

Alberta companies exhibiting at CIPPE and delegates taking part in the workshops will all have opportunities to develop contacts; market technologies, products and services; and explore potential partnerships in China.

In 2013, industry that accessed Alberta services in Asia generated at least \$460 million in trade and investment. Alberta missions to China last fall resulted in the signing of the first ever provincial energy agreement with China.

LABOUR UPDATE



LABOUR MARKET INFORMATION

Alberta finished off 2013 with strong employment growth and is well-poised to build on these gains in 2014 due to continuing strong investment in the energy sector. Employment increased 3.2 per cent from January 2013 to January 2014. This led the country in growth and translated into 69,600 more people working in the province. The rise in employment was distributed between full- and part-time jobs, with over 97 per cent of jobs attributed to full-time work.

However, the labour force expanded by an even faster rateover the past year, with an increase of 75,900 people. As a result, the unemployment rate edged up slightly to 4.6 per cent, the lowest rate since October, and the second lowest in the country after Saskatchewan.

Due largely to the highest third-quarter net migration on record in 2013, Alberta led all provinces in population growth for the eleventh consecutive quarter. With the addition of 35,645 new residents between July and September of 2013, the province expanded its population by 0.89 per cent to 4,060,719 people. This was Alberta's highest third-quarter population growth rate since 2006, and it more than doubled Canada's growth of 0.39 per cent.

CHANGES TO THE TEMPORARY FOREIGN WORKER PROGRAM

It's important to know that the Government of Canada continues to reform the Temporary Foreign Worker Program to ensure Canadians are always first in line for available jobs, while temporary foreign workers are protected.

Effective Dec. 31, 2013, the federal government introduced changes that will:

- Provide the government with the authority to conduct inspections to make sure employers are meeting the conditions of the program;
- Allow the government To ban non-compliant employers from the program for two years and immediately add their names to a public ban list;
- Strengthen criteria for assessing Labour Market Opinion (EMO) and work permit applications; and
- Provide the government with the authority to revoke or suspend LMOs or refuse to process LMO applications, and to revoke and refuse to process work permits it necessary.

For more information on the new regulations, visif the federal government <u>website</u>.

ALBERTA ECONOMIC DASHBOARD

Tap Into the latest Alberta economic information with the Alberta Economic Dashboard.

This new online business information source presents timely and vital economic statistics in user-friendly formats to help your organization better understand Alberta's business environment. From job vacancies and housing starts, to new motor vehicle sales and net migration, this forward thinking project is the first of its kind in Canada.

The <u>dashboard</u> provides 26 economic metrics specific to the Alberta economy and will be updated on a near-daily basis.

2013 ALBERTA WAGE AND SALARY SURVEY

The recently released 2013 Alberta wage and salary survey provides information on wages and salaries for full-time and part-time employees in Alberta by occupation, geographic area and industry group. This information can help you make informed compensation decisions and assist in developing competitive hiring policies.

U.S. RECRUITING FACT SHEET

Are you recruiting internationally but have no idea where to start? The U.S. recruiting fact sheet provides information on the labour supply, migration trends, credential recognition and recruitment tips to help you make informed recruitment decisions.

NEW LABOUR MARKET INFORMATION

The Alberta government recently released updated versions of both the <u>Short Term Employment Forecast</u> and the <u>Occupational Demand and Supply Outlook</u>. These resources can help you make decisions about future staffing programs and resources on a per occupation basis.

CONTACTUS

Contact us with questions or concerns or for more information at <u>ABV/orkforceinfo@gov.ah.ca.</u> ■



What's new in the oil sands BUSINESS



The estimated cost of the upgrader/relinery that will convert some of Alberta's royalty bitumen into diesel fuel has ballooned to \$8.5 billion from the \$5.7-billion price tag cited when the project was sanctioned in 2012.

North West Redwater Partnership—a 50/50 joint venture between North West Upgrading Inc. and Canadian Natural Resources Limited—says the target for starting commercial operations at the 50,000-barrel-per-day plant has also been moved to September 2017 from the original forecast of mid-2016.

A portion of the Alberta government's royalty bitumen royalties collected as actual bitumen in lieu of cash royalties will provide 75 per cent of the upgrader/refinery's feedstock. In situ bitumen production from Canadian Natural will make up the other 25 per cent.

In announcing its budget and schedule overrun, North West Redwater says detailed engineering is well advanced on many process units, firm contractor quotes have been received, material takeofts have been finalized, certain larger contracts have been signed and site preparation has begun.

Saipern Canada Inc. has opened the largest indoor modular fabrication facility in Canada.

The new 19,000 square-metre facility opened on the company's 20-hectare site in northeastern Edmonton in late November. By combining pipe fabrication, plate cutting and module erection under one roof, the company plans to produce 240 modules per year. At any given time, the facility can house 16-20 modules, with space for another 42-45 in the yard outside.

Shell Canada Limited's 100,000-barrel-per-day Jackpine Mine Expansion project has been approved by the federal cabinet, despite federal Environment Minister Leona Aglukkaq finding the project likely to cause significant adverse environmental effects.

Those effects are justified in the circumstances, the lederal government said in its approval of the project. The decision

includes mitigation measures and follow-up program requirements that Shell must implement.

Statoil Canada Ltd. and Thai exploration and production company PTT Exploration and Production Public Company Limited (PTTEP) are splitting up their shared Kai Kos Dehseh steam assisted gravity drainage project.

Statoil will continue as operator and now 100 per cent owner of the Leismer and Corner projects, while PTTTP will own 100 per cent of the Thornbury, Hangingstone and South Leismer areas. Leismer is the only operating asset, currently about 10,000 barrels per day.

Statoil will pay US\$435 million to PTTEP, which includes US\$235 million in a working capital adjustment effective Jan. 1, 2011. The completion of the transaction is subject to customary regulatory approvals in Canada and is expected to close by the third quarter of 2014.

Enbridge Inc. is planning additional facilities at its Sunday Creek terminal to support rising production from Cenovus Energy Inc.'s Christina Lake project.

Priced at \$200 million, the expansion includes development work on a site next to the terminal's current location and a 350,000-barrel tank with associated piping, pumps and measurement equipment. I nbridge will do civil work on a future tank as well.

The new facilities will be in service in the third quarter of 2015, the company says.

Jacobs Engineering Group Inc. has won a two year oil sands and plant services contract for the Suncor Energy Inc. base plant.

Under the contract, Jacobs will help manage and support plant maintenance processes. Over the past four years, the company has taken part in seven turnarounds at the Suncor facility.

What's new in the oil sands

TECHNOLOGY



Two new pilot projects could benefit the oil sands sector—one by reducing the cost of hydrogen needed for upgrading, and the other by removing the need for diluent.

In mid-December, Western Hydrogen I.td. officially opened its molten salt gasification pilot plant in Fort Saskatchewan, Alta. The process uses water and a carbonaceous teedstock—such as petroleum coke or asphalt—to produce hydrogen and compressed CO_2 , which can be sequestered or used in enhanced oil recovery.

Western Hydrogen is also linked to Field Upgrading Ltd., which plans to open a pilot project to develop molten sodium bitumen upgrading. The process will break down bitumen, extracting the sulphur and heavy metals. The end result is oil that is light enough to transport without diluent. The project will be built adjacent to the Western Hydrogen pilot by the end of this year and is expected to be operational by the first quarter of 2015.

Enbridge Inc. and TransCanada Corporation have signed a \$4-million joint industry partnership agreement to conduct research on pipeline leak detection.

As part of the agreement, both companies will fund research conducted at an Edmonton facility to improve external leak detection. TransCanada and Enbridge will contribute \$1.3 million and \$1.6 million, respectively, to the partnership, while Alberta Innovation and Advanced Education will provide \$1.1 million.

Any advancements that come out of the research will be shared by both companies.

A pilot project designed to upgrade bitumen emulsion directly from the wellhead has received regulatory approval, but it's not clear yet when construction will begin. The proponent, Value Creation Inc., says it is funded to move forward at any time.

The TriStar project has a design capacity of 1,000 barrels per day of bitumen from two steam assisted gravity drainage well pairs. The plan is to take the bitumen and water emulsion directly from the wellhead and use Value Creation's proprietary upgrading technology to convert the bitumen to about 820 barrels per day of synthetic crude oil.

The pilot would be built on Value Creation's TriStar lands about 14 kilometres south of Fort McMurray and four kilometres east of Highway 63.

BA Linergy Inc. has filed with the Alberta Energy Regulator and Alberta Environment and Sustainable Resource Development to amend its Heartland upgrader project proposal.

The company wants to modify the upgrader's conversion process to produce medium crudes. According to BA Energy, the plan is better suited to the changing North American refining market, where light and extra heavy crudes are abundant, while medium crude supplies are declining.

The changes all fit within the previously approved project area in Strathcona County and would offer lower costs, reduced emissions and better environmental performance, the company says. Timing for project sanction remains uncertain.

At Seal in the Peace River oil sands, Murphy Oil Corporation is continuing to focus on its enhanced oil recovery projects, with recent work centred on steam.

The company's cyclic steam stimulation pilot project continues to show promise with two initial wells, according to Roger Jenkins, president and chief executive officer.

Jenkins says he is more excited about the second well than the first, which had some mechanical issues in the completion. The second well is currently producing in its third cycle and showing the best response to date, with production rates as high as 670 barrels of oil per day.

"The steam-oil ratio continued to improve in the previous cycle in this well, reporting an impressive steam-oil ratio of 1.8," he says.

Murphy expects to receive regulatory approval for a third well in the second quarter and would be ready to inject steam in the third quarter.

OIL SANDS PROJECT TECHNOLOGY GUIDE

CSS-CYCLIC STEAM STIMULATION

CSS involves injecting high-pressure steam into the reservoir for several weeks, followed by several weeks where the reservoir is left to "seak." The heat softens the bitumen and the water dilutes and separates the bitumen from the sand. The pressure creates cracks and openings through which the bitumen can flow back into the steam injector wells, which are converted to production mode.

ET-DSP-ELECTRO-THERMAL DYNAMIC STRIPPING (EMERGING)

Electrodes are placed in a grid configuration and a production well is located within the centre of each series of electrode wells.

PRIMARY PRODUCTION—COLD HEAVY OIL PRODUCTION WITH SAND

Cold heavy oil production with sand (CHOPS) is a non-thermal in situprimary production technology that involves the continuous production of sand using progressing cavity pumps to enhance recovery.

SAGD-STEAM ASSISTED GRAVITY DRAINAGE

SAGD employs two parallel horizontal wells, one injection well near the top of the reservoir, through which high-pressure steam is continuously injected, and one production well near the bottom of the reservoir into which the softened bitumen continuously flows and can be pumped to the surface. SAGD surface facilities include steam generation, water processing and bitumen treatment.

SOLVENT INJECTION/CO-INJECTION

Solvent injection or co-injection with steam is seen as one of the most promising incremental enhancements to the steam assected gravity drainage (SAGD) process. In solvent co-injection, it is projected that hot vapour solvents carried by steam can penetrate deeper into the warm bitumen zone than steam alone. This results in a thicker mobilization layer and a larger bitumen flow along the SAGD chamber wall and increased production with lower greenhouse gas emissions. Solvent injection/co-injection technologies include: bitumen extraction solvent technology (BLST), solvent aided process (SAP) and solvent cyclic SAGD (SC SAGD).

SURFACE MINING

Trucks take oil sand to crushers where it is prepared for extraction. Crushed oil sand is mixed with warm water and fed through a frytin transport system to an extraction plant where the mixture of oil, sand and water is placed in separation vessels. Injected air forms tiny bubbles that separate bitumen from the sand and floats it to the tank surface where it forms a thick froth that is skimmed off, mixed with naphtha and spun in a centrifuge to remove this remaining solids, water and dissolved salts. The cleaned sand and the water are then sent to the tailings area where the water is recycled back to the extraction process.

TAGD-THERMAL ASSISTED GRAVITY DRAINAGE (EMERGING)

TAGD is a process being developed for the in-situ recovery of bitumon from carbonate formations. TAGD uses an array of downhole heaters installed in horizontal wells to heat the reservoir via thermal conduction.

THAI-TOE TO HEEL AIR INJECTION (EMERGING)

THALuses a vertical air injection well with a horizontal production well. Rather than steam, THAI technology injects air and then relies on underground combustion of a portion of the oil in the ground to generate the heat required to melt the remainder of the bitumen and allow it to flow into the production well. The process is infended to reduce greenhouse gas emissions and water use.

UPGRADING

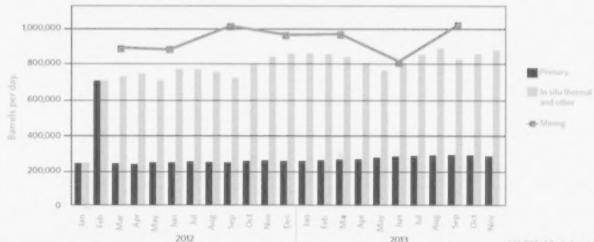
Once bitumen is produced, it is sent for further upgrading, a process that breaks down the heavy carbon molecules and converts it into a product similar to conventional crude oil. This can be processed by refiners into value-added products.

VSD-VERTICAL STEAM DRIVE

Vertical steam drive incorporates the creation of hexagonal well patterns. At Carmon Creek, Shell plans to drill six vertical production wells in a hexagonal pattern, with one dedicated steam injector well in the centre. The goal of this recovery method is to drive fluid horizontally from the steam injector well to the producer wells, without relying on gravity or vertical flow, and to operate at low pressures.

SOURCE: Climate Charge and Immitted Management Corporation/Of Sands Disamptors, Group/Glosop Research





SOURCE Alberta Lourgy Regulator

Project listings

Updated status of oil sands projects in Alberta

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nded sale activities					Place L	10,000	2009		2000
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Indona majority owner Pan Orient Freng reparation and construction is underway awn Lake SAGD demonstration project i	y, and equipment	for the facility	is mady for installation	n. Strom injection at the	The Alberta Energy Regulator says thermal arra" of the Athabasca m of five impacted projects				
he second quarter of 2014					Photor I	34.784	2017		ETAT 10 1 1 11
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liffdale					Suncor says that production was n	ah and la Confession as	a month of the	and a single source of the	to Hannaha San
A hearing has, weapped up in Peace River re- teringe tanks resociated with Baytee's cold aublic on the Alberta Energy Regulator web	production in the				tower and related units, which was planned maintenance activities for	successfully completes	t in October 5	arcor says this marks t	
Pilot	7,000	2011			(f) and U2.	225,000	1967		UPG
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eal/Cadotte					enable the placement of consolidate				
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pproval for a third well in the accord quarter					Stage 3 Expansion (UE-I)	100,000	2006-		100
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NORTHERN ALBERTA OIL LTD. Swe, Eaks Company owner Deep Well Oil & Care Gry	ys dolling has con				Englate	#1610N - UP	SPADER 2009		UPS
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NORTHERN ALBERTA OIL LTD.	es drilling has con- the construction well facilities. It is	n of a steam p anticipated o	eneration facility, water	er handling and oil freat-	CNOOC LIMITED Long Lake Phase 1	STORES.		- Owner,	(PG
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GLOSSARY of oil sands terms

Asphaltenes

The heaviest and most concentrated aromatic hydrocarbon fractions of billumen.

Barre

The traditional measurement for crude oil volumes. One barrel equals 42 U.5. gallons (159 litres). There are 6.29 barrels in one cubic metre of oil.

Ritumen

Naturally occurring, viscous mixture of hydrocarbons that contains high levels of sulphur and nitrogen compounds. In its natural state, it is not recoverable at a commercial rate through a well because it is too thick to flow. Bitumen typically makes up about 10 per cent by weight of oil sand, but saturation varies.

Cogeneration

The simultaneous production of electricity and steam, which is part of the operations of many oil sands present.

Cokins

An upgrading/refining process used to convert the heaviest fraction of bitumen into lighter hydrocarbon by rejecting carbon as coke. Coking can be either delayed coking (semi-batch) or fluid coking (continuous).

Condensate

Mixture of extremely light hydrocarbons recoverable from gas reservoirs. Condensate is also referred to as a natural gas liquid, and is used as a difuent to reduce hydromy viscosity for pipeline transportation.

Conventional crude oil

Mixture of mainly pentane and heavier hydrocarbons recoverable at a well from an underground reserven, and liquid at atmospheric pressure and temperature. Unlike bitumen, if flows through a well without stimulation and through a pipeline without processing or dilution.

Cracking

An upgrading/refining process for converting large, heavy molecules into smaller ones. Cracking processes include fluid cracking and hydrocracking.

Cyclic steam stimulation (CSS)

An in situ production method incorporating cycles of steam injection, steam scaking and oil production. The steam reduces the viscosity of the bitumen and allows it to flow to the production well.

Density

The heaviness of crude oil, indicating the proportion of large, carbon-rich molecules, generally measured in kilograms per cubic metre (kg/m²) or degrees on the American Petroleum Institute (API) gravity scale, in western Canada, oil up to 900 kg/m² is considered light-to-medium crude—oil above this density is deemed as heavy oil or bitumen.

Dilbit

Bitumen that has been reduced in viscosity through addition of a diluent such as condensate or naphthal

Diluent

A light hydrocarbon blended with bitumen to enable pipeline transport. See Condensate.

Extraction

A process, unique to the oil sands industry, that separates the bitumen from the oil sand using hot water steam and caustic soda.

Froth treatment

The means to recover bitumen from the moture of water, bitumen and solids "froth" produced in hot-water extraction (in mining-based recovery)

Gasification

A process to partially exidize any hydrocarbon, typically heavy residues, to a mixture of hydrogen and carbon monoxide. Can be used to produce hydrogen and various, energy by products.

Groundwater

Water accumulations below the Larth's surface that supply fresh water to wells and springs.

Heavy crude oil

Oil with a gravity below 27 degrees API. Heavy crudes must be blended or mixed with condensate to be shipped by pipeline.

Hydrocracking

Refining process for reducing heavy hydrocarbons into lighter fractions, using hydrogen and a catalyst, can also be used in upgrading bitumen.

Hydrotransport

A slurry process that transports water and oil sand through a pipeline to primary separation vessels located in an extraction plant.

Hydrotreater

An upgrading/refining process unit that reduces sulphur and nitrogen levels in crude oil fractions by catalytic addition of hydrogen

Insite

A Latin phrase meaning "in its original place" in siturecovery refers to various drilling-based methods used to recover deeply buried bitumen deposits.

In situ combustion

An enhanced oil recovery method that works by generating combustion gases (primarily CO and CO₃) downhole, which then "push" the oil towards the recovery well

Lease

A legal document from the province of Alberta giving a operator the right to extract bitumen from the oil sand existing within the specified lease area. The land must be reclaimed and returned to the Crown at the end of operations.

Light crude oil

Liquid petroleum with a gravity of 28 degrees API or higher. A high-quality light crude oil might have a gravit of about 40 degrees API. Upgraded crude oils from the oil sands run around 30–33 degrees API (compared to 32–34 for Light Arab and 37–40 for West Texas Intermediate).

Mature fine tailings

A gel-like material resulting from the processing of clafines contained within the oil sands

Oilsands

Bitumen-soaked sand deposits located in three geographic regions of Alberta: Athabasca, Cold Lake and Peace River. The Athabasca deposit is the largest, encompassing more than 42,340 square kilometres. Total in place deposits of bitumen in Alberta are estimated at 1.7 trillion to 2.5 trillion barrels.

Overburden

A layer of sand, gravel and shale between the surface and the underlying oil sand in the mineable oil sands region that must be removed before oil sands can be mined.

Permeability

The capacity of a substance (such as rock) to transmit a fluid, such as crude oil, natural gas or water. The degree of permeability depends on the number, size and shape of the pores and/or fractures in the rock and their interconnections. It is measured by the time it takes a fluid of standard viscosity to move a given distance. The unit of permeability is the Darcy.

Petroleum coke

Solid, black hydrocarbon that is left as a residue after the more valuable hydrocarbons have been removed from the bitumen by heating the bitumen to high temperatures.

Primary production

An insitu recovery method that uses natural reservoir energy (such as gas drive, water drive and gravity drainage) to displace hydrocarbons from the reservoir into the wellbore and up to the surface. Primary production uses an artificial lift system in order to reduce the bottomhole pressure or increase the differential pressure to sustain hydrocarbon recovery, since reservoir pressure decreases with production.

Reclamation

Returning disturbed (and to a stable, biologically productive state. Reclaimed property is returned to the province of Alberta at the end of operations.

Steam assisted gravity drainage (SAGD)

An in situ production process using two closely spaced horizontal wells: one for steam injection and the other for production of the bitumen/water emulsion.

Surface mining

Operations to recover oil sands by open-pit mining using trucks and shovels. Less than 20 per cent of Alberta's oil sands resources are located close enough to the surface (within 75 metres) for mining to be economic.

Synthetic crude oil

A manufactured crude oil comprised of naphtha, distillate and gas oil-boiling range material. Can range from highquality, light sweet bottomiess crude to heavy, sour blends

Tailings

A combination of water, sand, silt and fine clay particles that is a by-product of removing the bitumen from the oil sand through the extraction process.

Tailings settling basin

The primary purpose of the fallings settling basin is to serve as a process veisel, allowing time for fallings water to clarify and sill and clay particles to settle so that the water can be reused in extraction. The settling basin also acts as a thickers preparing mature line falls for final rectamation.

Thermal recovery

Any in situ process where heat energy (generally steam) is used to reduce the viscosity of bitumen to facilitate recovery.

Upgrading

The process of converting heavy oil or bitumen into synthetic crude either through the removal of carbon (coking) or the addition of hydrogen (hydroconversion)

Viscosity

The ability of a liquid to flow. The lower the viscosity, the more easily the liquid will flow.

CONTACTS

- · Alberta Oilsands
- Athabasca Oil Corporation
- Baytex Energy
- BlackPearl Resources
- **Brion Energy Corporation**
- **Canadian Natural Resources**
- Cenovus Energy
- Chevron Canada
- **CNOOC Limited**
- Connacher Oil and Gas
- ConocoPhillips Canada
- **Devon Canada**
- **Enerplus Resources Fund**
- E-T Energy
- Grizzly Oil Sands
- Harvest Operations Corp.
- **Husky Energy**
- Imperial Oil
- Ivanhoe Energy
- Japan Canada Oil Sands
- **Koch Exploration Canada**
- Korea National Oil Corporation
- Laricina Energy
- Marathon Oil
- **MEG Energy**
- Nexen
- North West Upgrading
- N-Solv
- Oak Point Energy
- **Occidental Petroleum Corporation**
- Osum Oil Sands
- Pan Orient Energy
- Paramount Resources Ltd.
- Pengrowth Energy Corporation
- Petrobank Energy and Resources
- PetroChina
- PTT Exploration and Production
- Shell Canada
- Sinopec
- Southern Pacific Resource Corp.

- · Statoil Canada
- Suncor Energy
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- Talisman Energy
- · Teck Resources
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- Value Creation Group

- Alberta Chamber of Resources
- · Alberta Chambers of Commerce
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- Alberta Energy Regulator
- **Alberta Environment and Sustainable**
- Resource Development
- Alberta Innovates
- · Alberta Innovation and
- Advanced Education
- · Alberta's Industrial
- **Heartland Association**
- · Building Trades of Alberta
- Canada's Oil Sands Innovation Alliance
- · Canadian Association of
- **Geophysical Contractors**
- · Canadian Association of
- Petroleum Producers
- **Canadian Heavy Oil Association**
- In Situ Oil Sands Alliance
- Lakeland Industry & Community
- Association
- **Natural Resources**
 - Conservation Board
- Oil Sands Community Alliance
- · Oil Sands Secretariat
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